

HISTORIC AMERICAN ENGINEERING RECORD

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BIG CREEK HYDROELECTRIC SYSTEM, POWERHOUSE 2
AND 2A

HAER CA-167-F

(Big Creek No. 2/2A)

South Bank of Big Creek, approximately 3.5 miles west of Big Creek

Big Creek vicinity

Fresno County

California

Photographs No. CA-167-F-42 through 53 are 8" x 10" contact prints from film copy negatives of paper digital scan printouts that are approximately 22" x 36". No original drafted line drawings were available for HAER copy work. The scan printouts copied for this project were made from microfilm and other secondary sources. Original materials are held at the Southern California Edison Company archives, 2244 Walnut Grove Avenue, Rosemead, California, 91770.

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David G DeVries, photographer, 2009

CA-167-F-1	Context view, north front, Powerhouses 2 and 2A, from the main service road. View is to the east.
CA-167-F-2	North front, east part. Powerhouse 2, also showing the access bridge spanning the tailrace pool.
CA-167-F-3	North front, west part, Powerhouse 2.
CA-167-F-4	West side, lower part of Powerhouse 2.
CA-167-F-5	West side, upper part of Powerhouse 2, viewed from the main service road.
CA-167-F-6	Oblique view of south rear, Powerhouse 2, showing the transformer deck.
CA-167-F-7	South rear, Powerhouse 2, looking west from the present transformer deck toward the concrete pad of the former exterior transformer deck.

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CA-167-F-8	East side, upper part, Powerhouse 2.
CA-167-F-9	Generator floor, Powerhouse 2, looking east from the west end.
CA-167-F-10	Powerhouse 2. West end of generator floor, looking north. View shows Unit 4 exciter, windows, and part of crane at upper left.
CA-167-F-11	Powerhouse 2. Looking north at Unit 3 right header governor pressure regulator and governor control cabinet.
CA-167-F-12	Looking north over the east part of Powerhouse 2 generator floor, showing the entrance to Powerhouse 2A in the background.
CA-167-F-13	Welding shop, Powerhouse 2, view to the west from the east end.
CA-167-F-14	Powerhouse 2. View of control room access corridor, from the rear of the main control panel, at left, looking west. Note also historic sink and cabinets in operator's kitchen area.
CA-167-F-15	Powerhouse 2. Easternmost part of control room access corridor, showing doorway at top of stairs from generator floor. View to the east.
CA-167-F-16	Powerhouse 2. Second floor telecom room, looking east.
CA-167-F-17	Powerhouse 2 archives located on the third floor south gallery. View to the west.
CA-167-F-18	Powerhouse 2. View of south gallery on the third floor, looking east.
CA-167-F-19	Powerhouse 2. Salvaged door and siding, now forming the entrance to an electrical parts storage room at the east end of the third floor south gallery.
CA-167-F-20	Powerhouse 2. East end of electrical parts storage room on the third floor, showing the fire door to the fourth and fifth floor hoist shaft on the left.
CA-167-F-21	Powerhouse 2, overview of the north gallery on the upper fourth floor, looking east. Circuit breaker banks on the right.

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CA-167-F-22	Powerhouse 2. North gallery of upper fourth floor, looking west at the station light and power 7 kilovolt disconnect cabinets on the north wall.
CA-167-F-23	Powerhouse 2. View of west wall windows in the north gallery on the upper fourth floor. Also shown on the far right is the 240V to 7KV transformer bank for the Musick 7 kilovolt line. The Musick 7KV line is the forebay line for Big Creek 2 Powerhouse. The transformer bank farther from the camera, in the corner, is the excitation primary potential transformer bank for Unit 4.
CA-167-F-24	Powerhouse 2. North wall window, north gallery, upper fourth floor.
CA-167-F-25	Powerhouse 2, basement oil room, looking west. A lubricating oil storage tank is visible on the left.
CA-167-F-26	Powerhouse 2. Basement oil room, looking toward the northeast corner with oil filter press and valving on left.
CA-167-F-27	Powerhouse 2A, north elevation, showing transformer deck.
CA-167-F-28	Northeast side and northwest front, Powerhouse 2A.
CA-167-F-29	View showing the four penstocks for the two generator units of Powerhouse 2A entering the rear of the building.
CA-167-F-30	Blind windows at rear of Powerhouse 2A, also showing rail spur, crane track, and tool shed. View is to the east, from the exterior transformer deck of Powerhouse 2.
CA-167-F-31	Overview of Powerhouse 2A generator floor, looking east from the west end. Unit 2 left turbine at right of photo.
CA-167-F-32	Powerhouse 2A. Overview of east wall, crane and Unit 1.
CA-167-F-33	View of Powerhouse 2A generator floor looking west from the east end. Unit 1 generator at left.
CA-167-F-34	Bird's eye view of west part of Powerhouse 2A generator floor, looking west from the platform above Unit 2 right header governor, into Powerhouse 2, beyond the west wall.

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CA-167-F-35	Powerhouse 2A. Detail, Unit 2 left turbine controls, looking southeast.
CA-167-F-36	Powerhouse 2A. Unit 1 left header and turbine, looking southeast.
CA-167-F-37	Powerhouse 2A. Shaft detail (left hand bearing) between Unit 1 generator and left header turbine, looking south.
CA-167-F-38	Powerhouse 2A generator floor, looking northwest at Unit 1 left header governor.
CA-167-F-39	Powerhouse 2A. Unit 2 right header turbine shutoff valve, to west.
CA-167-F-40	Powerhouse 2A. Unit 2 right header governor and turbine shutoff valve. View to east.
CA-167-F-41	View to the west along the south rear wall from the southeast corner of Powerhouse 2A, showing Unit 1 left header pipe and turbine shutoff valve.
CA-167-F-42	Big Creek Powerhouses 2 and 2A Plot Plan. Prepared for Property Data Book. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1 inch to 100 feet. Dated 5/9/1928. Drawing no. 59107, formerly no. 17674.
CA-167-F-43	Big Creek Powerhouse 2, Extension for Unit 4, East and West End Elevations. No change to the East end. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/8 inch to the foot. Dated 12/1/1924. Drawing no. 58724.
CA-167-F-44	Big Creek Powerhouse 2A, North Front Elevation. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/8 inch to the foot. From Microfilm. Dated 9/7/1927. Drawing no. 511949.
CA-167-F-45	Big Creek Powerhouse 2A, South Rear Elevation. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/8 inch to the foot. From Microfilm. Dated 9/7/1927. Drawing no. 511974.

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| CA-167-F-46 | Big Creek Powerhouse 2A, End Elevations. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/8 inch to the foot. From Microfilm. Drawing no. 510757. |
| CA-167-F-47 | Big Creek Powerhouse 2A, Main Floor Plan - Showing Assembly of Units 1 and 2. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/4 inch to the foot. From Microfilm. Drawing no. 515223. |
| CA-167-F-48 | Big Creek Powerhouse 2A, Structural Roof Plan and Sections for Transformer Building. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/4 inch to the foot. From Microfilm. Dated 10/18/1927. Drawing no. 513862-4. |
| CA-167-F-49 | Big Creek Powerhouse 2A Superstructure, Longitudinal Section. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/4 inch to the foot. From Microfilm. Dated 9/7/1927. Drawing no. 512005. |
| CA-167-F-50 | Big Creek Powerhouse 2A Superstructure, Concrete Platform for 220 K.V. Oil Switch. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1/4 inch to the foot. From Microfilm. Dated 8/10/1927. Drawing no. 513961. |
| CA-167-F-51 | Big Creek Powerhouse 2A, Assembly Plan for Pelton Unit. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 3/4 inch to the foot. From Microfilm. Dated 7/12/1928. Drawing no. 515802. |
| CA-167-F-52 | Big Creek Powerhouse 2A, Mill Details. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale as shown. From Microfilm. Dated 10/24/1927. Drawing no. 512001. |
| CA-167-F-53 | Big Creek Powerhouse 2A, Bridge. Southern California Edison Co. Dept. of Engineering Design, Los Angeles, California. Original scale 1 inch to the foot. From Microfilm. Dated 6/22/1927. Drawing no. 513633. |